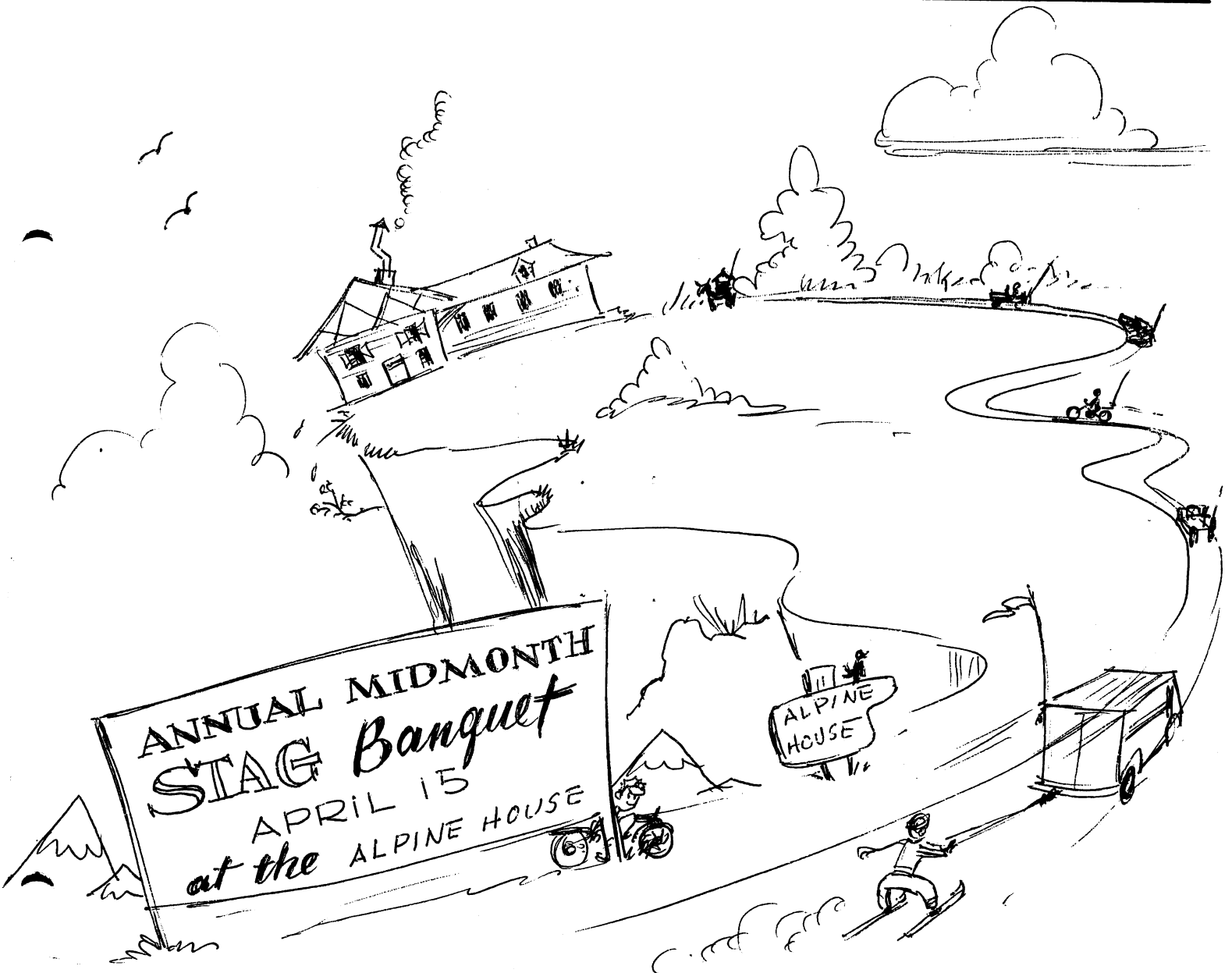




THE BLURB

PHILMONT MOBILE RADIO CLUB INC.

April
1959



THE BLURB

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the Phil-Mont Mobile Radio Club, Inc.

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The "Blurb" is published by and for the members of Phil-Mont to further the interest of Amateur Radio in general, and Mobile Radio in particular. We endeavor to keep news accurate, interesting, and in a small way, educational. Any deviation from this is unintentional. Copying and quoting is permitted, provided credit line is included. Commercial use is not permitted, and subscriptions are gladly exchanged with other radio clubs.

DEADLINES

The "Blurb" is mailed on the last Thursday of the month. All material for the Blurb must be received by the Editor, QZO, before the fifteenth of the month.

1959 CLUB OFFICERS

PRES. John J. Tinaglia W3AWH
V. PRES. H. Paul Bohlander W3VVS
SECT'Y Burton D. Baylis W3IVD
TREAS. Robert M. Lachman W3OEC
BRD. OF DIR: W3's NIP, PKY, QQH, QZO, YJM,
AND ALL 1959 CLUB OFFICERS

MEETINGS

Regular meetings are normally held on the 1st Monday of the month. Check the Calendar at right for exact date. Meetings are held at the Germantown Town Hall, at Germantown Ave. and Haines St., starting at 2000 hours (8:00PM)

NETS & NET FREQUENCIES

Ch 1 - 29493 Kcs Ch 3 - Unassigned
Ch 2 - 29626 Kcs Ch 4 - 50.7 Mcs
Scrambled Egg Net, Weekdays, 0730-0830
Ten on Ten Net, Sundays, 1000-1100
Blarney Sessions, Anytime, Ch 1 or 2
29493 Kcs is monitored daily, 0830-2400
for the benefit of mobiles in Phila. area

PMRC CALENDAR OF EVENTS

April 6 Regular Meeting, 8 PM
Film: Sebring Sports Car Race
April 11 International House
April 15 Stag Nite Midmonth Meeting
Alpine Inn 6:30
April 18 WCAU-TV Ham Radio Program
June 27-28 Field Day
July 4 North Hills Parade
August 15 Birthday - ED's YL
August 25 Picnic/Clambake
Nov. 7 1959 Banquet

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10-on-10 Attendance, Feb: 228

.....

Visitors to March Meeting:

W3AZE	W3EDG	W3PER
W3BDM	K3EID	W3PKW
K3IMP	W3EQZ	W3TER
K3CJC	W3FHR	W3RSC
W3DJE	K3GBA	W3UVL
W3DJW	W3GBN	W3UWH
	W3GRM	

.....

This month's cover: W3YHV

.....

ADDRESS ALL COMMUNICATIONS FOR
THE BLURB TO W3QZO

Why did so many members come to the last meeting?

There were more present than in many a moon. They came from everywhere and familiar, wonderful, remembered faces were sprinkled through our crowd.

It would be nice if my pitch in this space last month brought some of the men out. I doubt it. I suspect that it was a combination of things - the program, the time of year, perhaps the weather. Whatever it was, it will be interesting to see if this happy condition continues. I hope so. It's up to you.

No doubt, the program is a vital part of each meeting. Some will say that it is the most important part. The response to our program questionnaire has been encouraging. In general, most are satisfied with the programs. Some believe we should have more outside speakers. Some want more variety. Others want ham radio topics only with the emphasis on mobile radio. Panel discussions, demonstrations, expert advice on problems, are all suggested. An unusual and astute comment of one member was that those who come to meetings generally are satisfied and we should really ask those who never attend what they want. To those who never come, I'm asking now. Let me know!

The most successful program, I believe, and one that most will enjoy is a varied program. Last month's program with the club auction, QQH's report on new equipment (a transistor power supply) and UVL's demonstration of a home brew radio controlled camera, approaches what all of us want in our programs. Interesting, educational, and entertaining programs require planning and cooperation from all the members. Many of you have new equipment, pet projects, technical information which would make a worthy part of any program. Share such knowledge with your club. Your programs and your club will be finer for your effort.

To put more fun in your life, try Phil-Mont meetings.

73

W3AWH

About fifteen postcards with news items were returned out of the two hundred mailed with last month's Blurbs. That's a great big $7\frac{1}{2}$ percent return, or to look at it another way the club paid a half a buck for each card returned to ED. While the dope received via cards was all very interesting, we can hardly stand an expense like this every month for such a relatively small return, so that's it - no more return postcards. W3HYU sent back one of the cards with news that he has been putting most of his spare time on the boat he got recently. Al was having trouble with the modulation on his mobile rig, rebuilt rig, found trouble was in mike, had so much gain he had feedback, built a scope to check, found out he also needed an audio oscillator, built osc, finally got rig operating FB again. He leaves work too early to work anyone in AM and gets out too early at PM. With spring coming on maybe he'll give us a shout on his way out to the boat... W3DSG came up with the suggestion to carry a brief story of the person featured on the front cover whenever we run a photo. See next issue... Olinie wants to know if Laporte (home of ED's YL) is the 51st state... W3IW just got a new Minolta camera, and was giving it a workout at the last meeting. He hopes to be active on the frequency again before long, as do many others who miss him... W3SMA now has most of the bug out of his mobile station and will be heard from more often... One of the cards was returned from Bernie Swandie, W3IHY, whose Qth is Rockville, Md. He is in urgent need of diagrams for either a miniature tube or transistor IF strip for use with a converter. Anybody having some pliz help... Confucius say, "Who say I say all the things they say I say?"... W3BS took out time to suggest that we have a greater exchange of ideas and experiences concerning the relative effectiveness of different mobile antennas on various bands. Carl would also like to see some scoop on noise and noise suppression techniques. Both these subjects have been covered from time to time in the Wobbly Hobby and Tech-Ni-Gram features of the Blurbs, but are not readily available to recent members or to careless slobbs like ED who have facilities for filling such dope but are too lazy to do it. In past discussion of the problem it has

been generally agreed that what was needed was a compilation of all past technical stuff from the Blurb, but there was never anybody brave enough to stick his neck out and do it. Well, W3QQH is a great one for mastering jobs others wouldn't touch with a ten foot pole, and W3YHV has long demonstrated his prowess with a drawing pen. Between them they have offered to handle the editing and art work respectively, on a book of tech material that will be made available at a very modest sum to anyone interested. To go back thru all past Blurbs and TVI Retreats to get the material, put it together in some reasonable form, and then redraw all the diagrams is quite a job, and it is great to see the interest these guys have for their monstrous project

STAG NITE DINNER/MEETING

Wednesday, April 15

For the third consecutive year, the April midmonth meeting is taking the form of a dinner/meeting/gabfest at which very little club business is transacted, but at which a lot of fun is had by all. ED missed it last year, but from all reports, it gets better each year, so you are sure to have a swell time. The dinner will be at the Alpine Inn, 642 Baltimore Pike, Springfield. W3OEC is going to take reservations and money at the April meeting. The total tab - unless you drink your dinner - is \$3.00 for veal or \$3.25 for turkey. You must pay up to have a reservation. BCNU, at 6:30.

W3AWG and W3BSG, both new members, were at the March midmonth meeting at the QTH of W3ADF... W3YHV has printed up call letter handle lists on 5 x 8 cards. Just the thing when you have a memory as poor as ED's... Some people in the club are not satisfied with the name "Comm Truck" for the comm truck. It was decided that we would run a contest, and although the rules aren't exactly clear, it seems that the contest will run until June 1. Any name admitted - even "Comm Truck" may be submitted. The suggestion that has the inside track with ED is Fluglebird, suggested by W3NIP as a joke. If we are going to re-name the bus (or Bookmobile if you prefer) let's at least pick an amusing one. Chuck didn't say whether to spell his entry as Fluglebird or Flooglebird. First prize for the best name has not been decided on as yet, but one possibility is a two week all expense paid trip to sunny Chester... The audit committee formed last month is preparing to go over the books and should have a report soon... W3UMK reports that he and W3HFD could use the services of a relay station at 0810 to help them communicate... W2WKI is finishing off his attic for a new shack, and is also re-organizing the station equipment. He says mobiling in South Jersey is an all-time low because of so many new crates... ARRL sends out a very interesting bulletin that sums up news from various club papers. Accent is on emergency communications... Auto-lite has just introduced a transistorized ignition coil. Ignition points control a small current in the base circuit that biases the transistor and makes it act like a switch in the primary of the coil. Big advantage is greatly increased life of points. Reducing arcing should reduce ignition noise too, as will transistorized voltage regulators when they are available for passenger cars... Jerry O'Neill, who used to be heard on the frequency as W3GLQ, is now K2JLE. He has his mobile rig (JGB's independent 6 volt system) on the air now, and is operating from home too... W3IRS handed out the latest issue of the FMRC member's address list at the last meeting. Frenchy got an assist on keeping his land line bill to a minimum from W3's AWH, CNO, DSG, QQH and DSG. These up-to-date lists are the cat's you know what. If you did not get one at the meeting, stand by; W3WNC is mailing the rest... W3DJW has an all-Gonset mobile station.

CIVILIAN DEFENSE COMMUNICATIONS

There are a number of CD notes to report this month. If interest is great enough AND if those who have the scoop will send it to ED, we will run a CD column every month or whenever there is sufficient accumulation of news to do so.

The Lower Merion two meter mobiles have checked into the Philadelphia CD net on recent Thursday evenings; W3MKA can hear them! ... W2ZAS is now Radio Officer for Haddon Heights and Camden. Ev is also teaching CD operator classes at the YMCA. Happy Birthday! ... According to W2WKI, checker in on 10-on-10, Burlington County RACES has moved its NCS into the new Mt. Holly Administration Building. Hank says activity is picking up on 2, 6, and 10 for the Friday night drills. Camden County is on the same nite. Gloucester Co. RACES is in the process of reorganizing, and hopes to re-activate soon... The Phil-Mont Comm truck (ED still likes Fluglebird the best) will march in the North Hills July 4th parade. Revised list of drivers for the truck is as follows:

Regular Drivers

W3KDO
W3OEC
W3PKY
W3QQH
W3VVS
W3YJM

Alternate Drivers

W3CDY
W3DSG
W3IDR
W3LEM
W3NIP
W3SAA

W3QQH expects to run a check-out for all those listed above to familiarize them with the exact speed at which the truck topples over, how to clash gears when shiftin, etc... All you proponents of CD send in material. All opponents let ED know right away how much you hate to read about it or you'll be seeing more of it. PICON.

W3WNC has received a "Beneficial Suggestion Award" from the Corps of Engineers for an electrical cost estimating data book which he suggested. More celebrities. The book will eventually be used on an international basis... W3SGR is going SSB with an HT-32 as a starter... W3CW packs a wallop running nothing more than a 6v6 final modulated by a 6AQ5. ED still thinks he has an Elmac tucked under the front seat... More new car fever. W3RCE just got one as did W3DSG. Ernie has a Ford Galaxie with his rig already completely transferred. Changing over to the new bus was no problem for him. He has a board the size of the transmitter that is mounted in the car and the xmtr is snapped onto the board with luggage catches. Real cute... K3CJC is getting to be a DX bug... Dupont is plugging the use of its clear plastic "Zytel" for use as fuel lines in automobiles. Beside being cheaper to buy and install, the transparency of the material, which is unaffected by gasoline and oil, allows inspection on the inside of the line for dirt, water or air... W3PWG was eavesdropping on a QSO between a K8 and a K7 the other day, when he heard via the 7 that the 8 was expecting a sked with a 5. (Thank goodness there are only ten call areas). The way things finally worked out, Rolly relayed from the 5 to the 7, and the 7 then relayed to the 8. That'll teach him to wander off channel one!... Got a return card from XED and couldn't figure out who W3XED WAS until it finally dawned that the card was from ex-ED; Pixie, that is. He has been working on his 813 rig at the rate of fifteen minutes a week so he can get on 40 and 80. The way George has it figured, a two hour job would take 12 weeks at this rate. He didn't explain where the extra four weeks comes from. XED has some movies that he took at Thule, and if he can ever arrange his work sked to get time off on the right night, the films will be shown at one of the regular meetings. How about that write-up of your adventure at the North Pole, too, George?... Big changes in the last meeting -- more members - more visitors - more prizes - more fun. If you missed it, surprise yourself at the April meeting by seeing what a big change there has been. The floor loading was just about up to maximum during the March encounter, with the biggest problem not being where to find a chair, but where to put it if you found one. The efforts of W3AWH in his campaign to boost attendance were not for nought. There were 48 regular members and 19 visitors for a total of 67. So many of the fellows had cameras that it looked like a meeting of the Amalgamated Shuttering Society. W3UVL was on hand wearing a new soup strainer. Russ demonstrated a radio controlled electronic device (flash) that he uses for photographing sports events. W3IVD wondered how it worked out at model airplane meets where they use the same frequency for remote control of models. The highlight of the meeting, of course was the auction, run by

W3WNC, for which fellows brought all kinds of stuff, with all proceeds going to FMRC. It was quite a sight to see Hy lofting a forty pound transformer above his head (one handed, yet) while calling for bids. We owe much of the success of the auction - which netted us over fifty bucks - to W3QOV who provided some of the choicest loot we have ever seen; Laurence brought, among other things, a 2 meter VFO, a phone patch, Millen 2 meter wave meter, brand new vibrator supply, coax relay with questionable coil but FB otherwise, and a miniature meter. There was a lot of other good stuff brought by different fellows too; it all goes to show what a pleasure it can be for all concerned when enough people get behind a club sponsored affair with the objective of making it a success and a good time. There was even a food mixer and a jig saw. You can't say Phil-Mont doesn't give you variety! Another side light to the meeting was a description of the new Heathkit transistorized power supply presented by W3QQH. Jim has just built two - one for himself, and one for W3EXY's new mobile rig in his brand new Oldsmobile. Doc is having some trouble with his that still remains to be resolved.

TWO DEMONSTRATIONS SCHEDULED DURING APRIL

WCAU - TV	INTERNATIONAL HOUSE
There is going to be a one hour TV show dealing with ham radio on Channel 10 at 7:30 (in the AM, that is) on Saturday, April 18. The exact part FMRC will take is not definite as yet, although parts of the film will be shown. The program will consist of film, interviews and live pickups of operating. There will be more information at the April meeting.	This organization is set up to provide social and cultural events for foreign college students who are attending school in the Phila. area. Don't ask what we have to do with culture - just be there if you can. Color slides of the comm truck will be shown, the comm truck will be there, and there will be a short demonstration of operating. Time is about 6 PM, April 11, at 3905 Spruce Street.

PHIL-MONT MOBILE RADIO CLUB-----TREASURER'S REPORT

Summary - Jan. 1st to Dec. 31st, 1958, incl.

RECEIPTS	EXPENDITURES
Dues & Initiation \$ 394.50	BLURB regular \$ 150.58
Prize chances 105.25	" improvements 111.88
Chow Kitty 102.41	Stationery & ofc. suppl. 18.64
Film rentals 69.00	Chow Kitty 33.54
Film sales 88.80	Field Day (net cost \$101.40) 121.25
Assoc. memberships 20.00	Com. Truck maint. & opertg. 169.04
Auction 62.50	" " radio 38.98
Crystals 40.50	E.S.M. Postage 13.75
Donations - coffee 35.00	Cash awards 55.00
Donations - antenna 20.00	Banquet 116.03
Donations - St. Davids 80.00	Flowers 41.35
Q.S.L. Sale 50.50	Film rebate 4.00
Alpine Inn Dinner 69.50	Alpine Inn 68.95
Notary fees, etc. .81	Prize tickets 4.27
Field Day (Chow Kitty & food sale 19.85	Anchorage Inn 25.00
Clam bake 57.50	Clam bake 53.37
E.S.M. Film Release 27.00	Q.S.L. Printing 49.44
	ARRL Convention 15.07
	Program Committee 5.55

Incorporation cost	\$ 62.94
Crystals	26.68
Mischief nite chow	2.59

\$1, 243.12

\$1,188.10

Respectfully submitted,
Robert M. Lachman, W3OEC,
Treasurer

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W3GBN will soon be mobile from his VW...The suggestion to issue a membership certificate was voted down at the last midmonth... W3's UMK, QQH and QKW - the club's most avid balloonnatics got together at the March meeting and want to send regards to one of their ex-cohorts, Bob Riegel... W3WNC is going to look into the possibility of mailing the Blurb at the second class rate of \$ 25 per year plus 1/8 cent per pound. Now ED has always considered the Blurb (since the present ED took over anyway) as junk mail in the fullest sense of the term, but calling it second class is going too danged far! The Blurb has been and always will be first class junk. Seriously, there is a problem in changing the mail rate due to the longer time that must be allowed for delivery. It will increase the lead time required for writing this stuff by several days, especially around holidays when time don't come easy. ED is already getting material after the present deadline, which, believe-it-or-not is the 15th. This would definitely have to be put aside until the following month, at which time it would no longer be news. There is nothing like old news, absolutely nothing... The program for the April meeting will be motion pictures of the 1958 Sebring Grand Prix (that's pronounced "pree", wise guy) sports car race. The film is in color, and comes right on the heels of this year's race, so it will be timely too. Two other parts of the program are planned for your enjoyment also. Come to the meeting and see what they are... W3QQH replaced the ropes on the doors of the fire house where the comm truck is garaged - nice gesture that should result in good will for us... Last month the Blurb had a play that was supposed to focus attention on the increasing need of getting amateur radio represented in the city where its regulations are formulated. ED has since been given a copy of an address by Gil Crossley at the last national convention. Gil is W3YA, Atlantic Division Director, and he has tried to get favorable action from the ARRL Board of Directors on this subject for the last three years with no success. This is no ill advised scheme; Gil Crossley has consulted with public relations specialists who have no ax to grind about ham radio, and they advise at least starting an information office that could later be expanded if necessary. W3YA and the ARRL General Manager, W1BUD, would probably be interested in hearing your opinion on this subject before the Director's meeting.

THE LISTENING POST

Here's a column devoted to collecting various items of news and information concerning members mainly from monitoring Channel 1 but not restricted there-to. To keep this column full, all you have to do is get on 29.493 and keep it hot. We'll do the rest. It is hoped that this new column will encourage more activity on the club frequency. When you boys who aren't monitoring find out what's going on there, we're sure you'll want to join in the fun. Enuf said, on with the news:

EXY is already looking forward to his summer vacation in Nantucket, his main problem now seems to be what kind of TV antenna will bring in those Boston stations over 100 miles of water, DSG advises him he'll be blinded by the snow on his TV screen; CUB making the observance that all our recent Presidents seem to have one thing in common - they like to talk; FLP extending time period in which to cash the ALMO award to 60 days, if

necessary - Ralph, the club really appreciates your firm's cooperation and participation in our meeting and we only wish more firms would do the same; DJV has new working hours and now monitoring Channel 1 Monday to Friday from 1:15 A.M. to 3 A.M.; AWG's father seriously injured falling downstairs, in hospital but now on the mend; NIP not only firing a Viking II but has a B & W 5100B and SSB adapter on reserve, a rotor and beam also in the works - what does that boy want to work anyway; brace yourselves, gentlemen. QQH was actually heard calling an 8 and even yaking on another frequency occasionally of late; ZAS has so many mikes he tried to check in with his 2 meter mike last Sunday; SMA heard mobile with a nice signal; BSG, a new member, doing his bit, already on the Blurb folding committee; JIL for years folding Blurbs finally getting recognition in the sheet's masthead; HQJ proud of his new Drake receiver, says a signal which is in the noise level of his NC 300 is phone patch quality on the Drake, and not too expensive either; QCV also has a Drake and just as enthusiastic. LEM wants a coffee percolator to make his refreshment committee activities more enjoyable; FVW attaching a note to his dues check that if the time of his early morning radio show is ever changed he'll be back at our meeting - he gets up at 3:30 A.M.; OEC's mother, 84 years young, feeling better after surgery; FWI with a new home brew rig for his home, sounds mighty nice on that other club's frequency; to the multitude, here's a communication received lately, "The lifeblood of the club is activity on Channel 1 -right now we are very anemic. Suggest a crash program to get more activity on the air. The Channnel should be 'hot' from 5 to 11 P.M. daily." Gentlemen, start crashing.

From MONITOR

(ED's Note: Guess who "Monitor" is. First one wins a big prize.)

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New Uses for Ham Radio Dept.

It went something like this:

Station One: W3IVD/mobile, W3IVD/mobile, this is K3CJC calling and standing by.

Station Two: K3CJC, this is W3IVD/mobile. Go ahead, Toni.

One: What is your present location, Daddy? - Over.

TWO: Oh, I guess I'm about seven miles from home.

One: I went down town to do some shopping today with my girl friend. I bought a new dress, a hat, two pair of shoes and a purse. Is that OK?

Two:#####

That's not exactly the way it was. Burt was surprisingly philosophical and calm about it, but it does show some of the ingenious uses to which ham radio can be applied. This latest one should do more to bring harmonics and XYL's into the fold than anything else.

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W3QQH and Mrs. spent a weekend away from the old homestead celebrating their tenth anniversary... W3NIP brought a mouth watering assortment of resistors and ceramic capacitors for a prize at the March meeting. This stuff was all brand new and manufactured by the company recognized as the leader in this field... Speaking of prizes, W3OMK suggests that we try the idea used by West Philly. They take the Almo award, add five bux of club money, and purchase about ten dollars worth of loot. You can get some nice stuff that way and it ought to increase interest in meetings - sort of a matching funds deal... W3CHEZ is temporarily off the air until the skipper of his ship returns from vacation... From the Associated Elbow Benders, Boozers and Brass Rail Polishers comes this advice: "If you must drive, Drink. Face traffic with confidence"... Pixie says he is going to sit on the sidelines and gripe (ED note: what's

new about this?) by submitting his list of "Why don't you's". Claims there should be a plaque awarded for the best gripe of the year... Potter Brumfield has a miniature relay Type MB3D that comes in a variety of coil voltages. It is a double break relay with contacts rated at 60 amps; just the thing for a "starter" relay in transistorized power supplies or 12 volt dynamotors. It is only about 1 1/2 x 1 inch and employs large solid silver contacts... W3HFD would like to see more activity on the channel between 9900 and 1700. The peddlers really have it tough... W3DQG gets better reception with the spring off his antenna... The new Narco transistorized power supply was shown off at the midmonth by W3QQH. Sez it gives 156 watts and 560 volts continuous service... XED is trying to get W3HFD on the SSB bandwagon. Pixie was convulsed by Frank's double sideband "impressed carrier" as received 2400 mi. north... No room for fill material this month - too much scoop.

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SWAP AND SHOP

For Sale:

- Viking Ranger - Factory wired, sequence keying, push to talk, screen controlled for variable output as exciter. \$175 W3CSS
- Viking II - With Johnson keying conversion kit installed. \$220
- W3SKL, Hatboro OSborne 5-7696
- HQ-129 - With built-in 100kc calibrator and matching speaker. \$120
- W3SKL (This and Viking II belong to W3SAA's nephew who is going to the far East)
- PE-103A - Dynamotor, used, working condx, very good shape, with heavy primary cables. No secondary (HV) cables or plugs. Complete with base and shock mounts. \$13.95 W3SAA (This is not the one purchased from the club a while back)
- PE-101C - Used. Cut down per CQ article. Now mounted on a 5x10x3 chassis. No relays or filter. \$3.50 W3SAA
- 10 Meter Xmtr - 2E26 Final, 25 watts input. 6CL6 OSC with remote xtal selection on two freq and provision for spotting. Built-in ant relay. 2-6V6 mod. carbon mike input. Size 5x10x3. Wired for 6V, easily changed to 12 V. \$ 35 W3QZO
- 10M/BC RCVR - Complete receiver, less power supply. Built-in TNS and xtal controlled converter for 10M. Band switch. Has all controls for operating xmtr above - may be used for other purposes. 6V can be changed to 12V.
- #23 W3QZO
- Vibrator Supply - Mallory VP6-325. 6V input 325V 100 ma output. Almost new. vy good condx. \$10 W3QZO
- 1-super pro 400 Rcvr & speaker \$ 90
- 1- Viking #1 transatr TVI'd \$ 80
- 1-Hallicraftr HT-18 VFO \$ 35
- 1-VHF 152A convtr \$ 40
- 1-BC 348Q Rcvr \$ 40
- 1-3-30mc Convtr Gonset \$ 10
- 1-National 1 to 10 meters \$ 10

W3ZN

SEND ALL ITEMS FOR PUBLICATION IN SWAP AND SHOP TO W3QZO

PHIL-MONT TEK-NI-GRAM
APRIL 1959

The Heath Company, Benton Harbor, Michigan, has recently made available a transistorized mobile power supply, at a net cost of just over \$45, delivered in Philadelphia. The writer was asked to construct one of these kits and install it in W3EXY's new blitz buggy. Some tests were made on the unit following its completion, and these figures are presented without comment. ~~For summary of test~~

12 v dc input	580 v @ 130 ma and 260 v @ 84 ma	Test #1
12 v dc input	530 v @ 160 ma and 230 v @ 84 ma	Test #2
11.8 v input	575 v @ 175 ma	Test #3
11.5 v input	500 v @ 225 ma	Test #4
12.6 v input	620 v @ 185 ma	Test #5
12.6 v input	740 v @ 15 ma (bleeder) & 340 v @ 100 ma	Test #6

I will not deal with the primary circuits except to note that they use 2N442 transistors, which are 15 amp fused and relay started. The secondary circuit includes a 300 v ac winding, voltage doubling, resistive and capacitive filtering, and a gimmick called a load indicator-- actually only a 250 ma pilot lamp in parallel with a resistor--- which glows to normal brilliance when 250 ma flows in the supply. Better brains than mine suggest that this gimmick may also function as a delay in applying the load to the supply, in order that the transistors have just enough time to begin their oscillation, before the load is applied.

When the supply was installed, the primary voltage then applied came to almost 14 volts, thus raising the secondary voltage considerably. It was found that when the low voltage tap was used for receiving, an extremely heavy bleeder on the 600 v tap was required to hold the free running voltage within the ratings of the capacitors. It was also found that a Morrow MBR receiver was not sufficient load to hold the 300 v tap to less than 350 v, and that a dropping resistor and filtering capacitor were necessary. Within one week of operation with what we consider a relatively light load, trouble developed, and a check indicated shorted transistors. These were returned to Heath and we await developments. Personal opinions include the following: The supply was designed for a specific application and may not be applicable to the varied transmitters we have without some modification; some method of bleeding the 600 v tap must be used when using the 300 v tap for receive only, and so forth.

Those of you who are used to mounting a real hunk of iron like the PE-103, are in for a real surprise. Size is 9" long x 5" w x 5" high-- WEIGHT is LESS than 6 lbs., primary current max 15 amp--rated efficiency 75% (try that one on your PE103). More dope on the practical angle for these gadgets soon. For any further questions, the contributor's telephone number is TURNER 4-8469, W3QQH.

PLEASE SEND TEK-NI-GRAM CONTRIBUTIONS TO:

H. W. HENDRIX
RD#1, MALVERN, PA.

C. R. Spenser W3QZ
124 Central Ave.
North Hills Pa. R

"THE HLURB"
A Phil-Mont Mobile Radio
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April 1959

FIRST CLASS MAIL

